

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/005,921

DATE: 12/17/2001  
TIME: 12:21:12

Input Set : A:\PTO.DC.txt  
Output Set: N:\CRF3\12172001\J005921.raw

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56 tagtgtatag tggccaaga ttctgaatgt aacttgagac ttacctgagt ttgtcatgcg 1920  
 57 actgggtaaa ttgtttctat ggcacatcta atcatttaat aagtaattac ctcattaagt 1980  
 58 acccattgtt tcaggacttt cacattggcc accaatttct gtgacccagc tccacattta 2040  
 59 tattctctt cggcaaaacc aaatttcatt atgtctgtt aatatctaca gtctaattgt 2100  
 60 ttgtaaagaca tctagatagg aaaaatagtt acccatgagc acaggagggc tggcctgacc 2160  
 61 ctcaccagct gtgcagtggc ttcggtaaaa ggagaatgag ccctactct tgaaagggtt 2220  
 62 tagtgcttgg gagagcagtc tgtacccgtc ctggcagca cagtagagcc agcccaaga 2280  
 63 acacaacagt gagtggggga gttggccctg gttggctcag gatcaggaaa caggaggat 2340  
 64 gaccaacttg gggcttttag gttggccacc ccagcatcca tttttttttt gttttttttt 2400  
 65 agcctgtgaa ggggggggtc ctgtagaact aaggctgcag gatctccatg acacagggca 2460  
 66 acaacagggt atctgagaag ggtccctgtt agggtccagt atttataatgtt caccagaagc 2520  
 67 cagaggcctc ggatcagaca atgaccattt gttttttttt gttttttttt gttttttttt 2580  
 68 aagatgtgtg ggcacacgga aataactgagg gacacacaca agcttttatg gagatgtttt 2640  
 69 tttttttttt ttgtttttt ttgtttttt ttgtttttt ttgtttttt ttgtttttt ttgtttttt 2700  
 70 gataaggaag ctggagacat gttttttttt gttttttttt gttttttttt gttttttttt 2760  
 71 aaaaaaaaaaa 2770  
 73 <210> SEQ ID NO: 2  
 74 <211> LENGTH: 484  
 75 <212> TYPE: PRT  
 76 <213> ORGANISM: Mus musculus  
 78 <400> SEQUENCE: 2  
 79 Met Ala Gln Ser Pro Val Ser Ala Glu Val Ile His Gln Val Glu Glu  
 80 1 5 10 15  
 81 Cys Leu Asp Glu Asp Glu Lys Glu Met Met Leu Phe Leu Cys Arg Asp  
 82 20 25 30  
 83 Val Thr Glu Asn Leu Ala Ala Pro Asn Val Arg Asp Leu Leu Asp Ser  
 84 35 40 45  
 85 Leu Ser Glu Arg Gly Gln Leu Ser Phe Ala Thr Leu Ala Glu Leu Leu  
 86 50 55 60  
 87 Tyr Arg Val Arg Arg Phe Asp Leu Leu Lys Arg Ile Leu Lys Thr Asp  
 88 65 70 75 80  
 89 Lys Ala Thr Val Glu Asp His Leu Arg Arg Asn Pro His Leu Val Ser  
 90 85 90 95  
 91 Asp Tyr Arg Val Leu Leu Met Glu Ile Gly Glu Ser Leu Asp Gln Asn  
 92 100 105 110  
 93 Asp Val Ser Ser Leu Val Phe Leu Thr Arg Ile Thr Arg Asp Tyr Thr  
 94 115 120 125  
 95 Gly Arg Gly Lys Ile Ala Lys Asp Lys Ser Phe Leu Asp Leu Val Ile  
 96 130 135 140  
 97 Glu Leu Glu Lys Leu Asn Leu Ile Ala Ser Asp Gln Leu Asn Leu Leu  
 98 145 150 155 160  
 99 Glu Lys Cys Leu Lys Asn Ile His Arg Ile Asp Leu Asn Thr Lys Ile  
 100 165 170 175  
 101 Gln Lys Tyr Thr Gln Ser Ser Gln Gly Ala Arg Ser Asn Met Asn Thr  
 102 180 185 190  
 103 Leu Gln Ala Ser Leu Pro Lys Leu Ser Ile Lys Tyr Asn Ser Arg Leu  
 104 195 200 205  
 105 Gln Asn Gly Arg Ser Lys Glu Pro Arg Phe Val Glu Tyr Arg Asp Ser  
 106 210 215 220

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107 Gln Arg Thr Leu Val Lys Thr Ser Ile Gln Glu Ser Gly Ala Phe Leu  
108 225 230 235 240  
109 Pro Pro His Ile Arg Glu Glu Thr Tyr Arg Met Gln Ser Lys Pro Leu  
110 245 250 255  
111 Gly Ile Cys Leu Ile Ile Asp Cys Ile Gly Asn Asp Thr Lys Tyr Leu  
112 260 265 270  
113 Gln Glu Thr Phe Thr Ser Leu Gly Tyr His Ile Gln Leu Phe Leu Phe  
114 275 280 285  
115 Pro Lys Ser His Asp Ile Thr Gln Ile Val Arg Arg Tyr Ala Ser Met  
116 290 295 300  
117 Ala Gln His Gln Asp Tyr Asp Ser Phe Ala Cys Val Leu Val Ser Leu  
118 305 310 315 320  
119 Gly Gly Ser Gln Ser Met Met Gly Arg Asp Gln Val His Ser Gly Phe  
120 325 330 335  
121 Ser Leu Asp His Val Lys Asn Met Phe Thr Gly Asp Thr Cys Pro Ser  
122 340 345 350  
123 Leu Arg Gly Lys Pro Lys Leu Phe Phe Ile Gln Asn Tyr Glu Ser Leu  
124 355 360 365  
125 Gly Ser Gln Leu Glu Asp Ser Ser Leu Glu Val Asp Gly Pro Ser Ile  
126 370 375 380  
127 Lys Asn Val Asp Ser Lys Pro Leu Gln Pro Arg His Cys Thr Thr His  
128 385 390 395 400  
129 Pro Glu Ala Asp Ile Phe Trp Ser Leu Cys Thr Ala Asp Val Ser His  
130 405 410 415  
131 Leu Glu Lys Pro Ser Ser Ser Ser Val Tyr Leu Gln Lys Leu Ser  
132 420 425 430  
133 Gln Gln Leu Lys Gln Gly Arg Arg Pro Leu Val Asp Leu His Val  
134 435 440 445  
135 Glu Leu Met Asp Lys Val Tyr Ala Trp Asn Ser Gly Val Ser Ser Lys  
136 450 455 460  
137 Glu Lys Tyr Ser Leu Ser Leu Gln His Thr Leu Arg Lys Lys Leu Ile  
138 465 470 475 480  
139 Leu Ala Pro Thr  
143 <210> SEQ ID NO: 3  
144 <211> LENGTH: 200  
145 <212> TYPE: DNA  
146 <213> ORGANISM: Artificial Sequence  
148 <220> FEATURE:  
149 <223> OTHER INFORMATION: Targeting Vector  
151 <400> SEQUENCE: 3  
152 cctgtgctt gactctcaag cctaaagtgtt ttgataagag gattctcttt caccacagag 60  
153 tgtctctatt gcaagaactc tgagagaaat gaagagagtc ctcagcaatg atgttggctt 120  
154 ctcgtggttc ccagagccct gcttaatgga tggagactgg acgagaacct ggctgctgtg 180  
155 gttctgaaca tggcccgagag 200  
157 <210> SEQ ID NO: 4  
158 <211> LENGTH: 200  
159 <212> TYPE: DNA  
160 <213> ORGANISM: Artificial Sequence  
162 <220> FEATURE:

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163 <223> OTHER INFORMATION: Targeting Vector

165 <400> SEQUENCE: 4

166 cttggctgaa ttgctctaca gagtgaggcg gtttgacctt ctcaagagga tcttgaagac 60  
167 agacaaagca accgtggagg accacacctgcg cagaaaccct cacctggttt ctgattatag 120  
168 gtaagtcatc ccctggggga ggggagaggg agtctagatg gtttagggcag tgagaagacc 180  
169 ccattgcttc ctcttctctc 200

VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date